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Attorney Docket No. 27969-701

PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor: R. Christopher deCharms

Serial Number: 10/062,627

Filing Date: January 30, 2002

Title: Methods for Physiological Monitoring,
Training, Exercise and Regulation

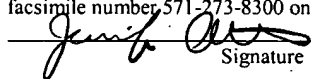
Group Art Unit: 2625

Examiner: Seyed H. Azarian

CONFIRMATION NO: 4476

Certificate of Mailing or Transmission
37 CFR §1.8

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Commissioner of Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

08/25/2005 EFLORES 00000134 232415 10062627 UNDER 37 C.F.R. §1.97

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Sir:

Applicant(s) hereby submit(s) an Information Disclosure Statement along with attached form(s) PTO/SB/08A. A copy of each listed publication is being submitted, if required, pursuant to 37 C.F.R. §§1.97-1.98, as indicated below.

Applicant(s) respectfully request(s) that the listed information be considered by the Examiner and be made of record in the above-identified application. Applicant(s) further request that the Examiner initial and return the attached form(s) PTO/SB/08 in accordance with MPEP §609.

Applicant(s) reserve(s) the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement is not intended to represent that a search has been made or that the information cited in the statement is, or is considered to be, prior art or material to patentability as defined in §1.56.

☐ 37 CFR §1.97(b). This Information Disclosure Statement should be considered by the Office because:

- ☐ (1) It is being filed within 3 months of the application filing date of a national application and is other than a continued prosecution application under §1.53(d);
-- OR --
- ☐ (2) It is being filed within 3 months of entry of a national stage as set forth in §1.491 in an international application;
-- OR --
- ☐ (3) It is being filed before the mailing date of the first Office Action on the merits;
-- OR --
- ☐ (4) It is being filed before the mailing of a first Office Action after the filing of a request for continued examination under §1.114.

☒ 37 CFR §1.97(c). Although this Information Disclosure Statement is being filed after the period specified in 37 CFR §1.97(b), above, it is filed before the mailing date of the earlier of (1) a final office action under §1.113, (2) a notice of allowance under §1.311, or (3) an action that otherwise closes prosecution on the merits, this Information Disclosure Statement should be considered because it is accompanied by one of:

- ☐ a certification as specified in §1.97(e) provided concurrently herewith;
-- OR --
- ☒ a fee of \$180.00 as set forth in §1.17(p) authorized below, enclosed, or included with the payment of other papers filed together with this statement.

☐ 37 CFR §1.97(d). Although this Information Disclosure Statement is being filed after the mailing date of the earlier of (1) a final office action under §1.113 or (2) a notice of allowance under §1.311, it is being filed before payment of the issue fee and should be considered because it is accompanied by:

- A. a certification as specified in §1.97(e); and
- B. a fee of \$180.00 as set forth in §1.17(p) is authorized below, enclosed, or included with the payment of other papers filed together with this Statement.

☐ 37 CFR §1.97(e). A certification signed by an Attorney of Record is provided herewith as required under 37 CFR §§1.97(b) and (c).

☒ 37 CFR §1.98(a)(2). The content of the Information Disclosure Statement is as follows:

- ☐ Copies of each of the references listed on the attached Form PTO/SB/08A are enclosed herewith.
-- OR --
- ☒ Copies of U.S. Patent Documents (issued patents and patent publications) listed on the attached Form PTO/SB/08A are NOT enclosed.
-- AND/OR --
- ☒ Copies of Foreign Patent Documents and/or Non Patent Literature Documents listed on the attached Form PTO/SB/08A are enclosed in accordance with 37 CFR §1.98(a)(2).
-- AND/OR --
- ☐ Copies of pending unpublished U.S. patent applications are enclosed in accordance with 37 CFR §1.98(a)(2)(iii).

- ☐ 37 CFR §1.98(a)(3). The Information Disclosure Statement includes non-English patents and/or references.
- ☐ Pursuant to 37 CFR §1.98(a)(3)(i), a concise explanation of the relevance of each patent, publication or other information provided that is not in English is provided herewith.
- ☐ Pursuant to 37 CFR §1.98(a)(3)(ii), a copy of a translation of the non-English language reference(s) is provided herewith
- ☐ Attached are copies of search report(s) from corresponding patent application(s), submitted in accordance with MPEP 609 D in support of the attached certification under 37 CFR §1.97(e)(1).
- ☒ *Fee Authorization.* The Commissioner is hereby authorized to charge the above-referenced fees of \$180.00 and charge any additional fees or credit any overpayment associated with this communication to Deposit Account No. 23-2415 (Docket No. 27969-701).

Respectfully submitted,

WILSON SONSINI GOODRICH & ROSATI .

Dated: August 19, 2005

By: Maya Skubatch
Maya Skubatch

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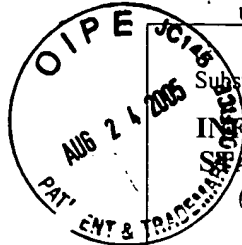
PTO/SB/08A (07-05)

Signature: Jennifer AllenPrint Name: Jennifer Allen

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number	10/062,627
Filing Date	January 30, 2002
First Named Inventor	R. Christopher deCharms
Art Unit	2625
Examiner Name	Seyed H. Azarian
Attorney Docket Number	27969-701

Sheet

1

of

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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US-5,184,074	02-1993	Arakawa et al.	
		US-5,215,095	06/01/1993	Macvicar, Brian A.	
		US-5,267,570	12/7/1993	Preston, Myra S.	
		US-5,280,793	01/25/1994	Rosenfeld, J. Peter	
		US-5,450,855	09-1995	Rosenfeld, J. Peter	
		US-5,522,863	06/04/1996	Spano, Mark L.	
		US-5,531,227	07/02/1996	Schneider, M. Brent	
		US-5,638,826	06/17/1997	Wolpaw, Jonathan	
		US-5,810,747	09/22/1998	Brudny, Joseph	
		US-5,844,241	12-1998	Liu et al	
		US-5,875,108	02/23/1999	Hoffberg, Steven M.	
		US-5,899,867	05-1999	Collura, Thomas F.	
		US-5,995,857	11-1999	Toomin et al.	
		US-6,042,548	03/28/2000	Giuffre, Kenneth	
		US-6,161,031	12/12/2000	Hochman, Daryl	
		US-6,377,833	04/2002	Albert, Douglass	
		US-6,374,140	04/16/2002	Rise, Mark	
		US-6,402,520	06/11/2002	Freer, Peter	
		US-2002/0103428	08-2002	deCharms, Richard Christopher	
		US-6,539,263	03/25/2003	Schiff, Nicholas	
		US-6,539,246	03/25/2003	Heid, Oliver	
		US-2004/0092809	05-2004	deCharms, Richard Christopher	

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/062,627
				Filing Date	January 30, 2002
				First Named Inventor	R. Christopher deCharms
				Art Unit	2625
				Examiner Name	Seyed H. Azarian
Sheet	3	of	5	Attorney Docket Number	27969-701

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	BF	Arfanakis, Konstantinos, Cordes, Dietmar, Haughton, Victor M., Moritz, Chad H., Quigley, Michelle A., and Meyerand, Mary E., "Combining Independent Component Analysis and Correlation Analysis to Probe Interregional Connectivity in fMRI Task Activation Datasets", Magnetic Resonance Imaging, Vol. 18, No. 8., pp. 921-930 (2000).	
	CA	Bock, Michael, Schad, Lothar R., Müller, Edgar, and Lorenz, Walter J., "Pulsewave Velocity Measurement Using a New Real-Time MR-Method", Magnetic Resonance Imaging, Vol. 13, No 1, pp. 21-29 (1995).	
	DC	D'Esposito, M., Detre, J. A., Aguirre, G. K., Stallcup, M., Alsop, D. C., Tippet, L. J. and Farah, M. J., "A Functional MRI Study of Mental Image Generation", Neuropsychologia, Vol. 35, No. 5, pp. 725-730 (1997)	
	DE	Downing, Paul, Liu, Jia, Kanwisher, Nancy, "Testing Cognitive Models of Visual Attention with fMRI and MEG", Neuropsychologia, Vol. 39, pp. 1329-1342 (2001).	
	DA	Fong, Grace, Knutson, Brian, Adams, Charles, Hommer, Daniel, "Event-Related fMRI Reveals Distinct Neural Correlates of Reward Anticipation versus Feedback", NeuroImage, Vol. 13, No. 6, Part 2 of 2 Parts (2001).	
	BA	Kotchoubey et al., "A New Method For Self-Regulation of Slow Cortical Potentials in a Timed Paradigm", Applied Psychophysiology and Biofeedback, Vol. 22, No. 2, pp. 77-93 (1997).	
	CB	Ngan, Shing-Chung, Auffermann, William F., Sarkar, Shantanu, and Hu, Xiaoping, "Activation Detection in Event-Related fMRI Data based on Spatio-Temporal Properties", Magnetic Resonance Imaging, Vol. 19, No. 9, pp. 1149-1158 (2001).	
Examiner signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	DCC	Pantel, J, Schröder, J, Schad, L.R., Friedlinger, M., Knopp, M.V., Schmitt, R., Geissler, M., Blüml, S., Essig, M. and Sauer, H., "Quantitative Magnetic Resonance Imaging and Neuropsychological Functions in Dementia of the Alzheimer type", Psychological Medicine, Vol. 27, pp. 221-229 (1997).	
	DD	Paus, Tomáš, "Imaging the Brain Before, During, and After Transcranial Magnetic Stimulation", Neuropsychologia, Vol. 37, pp. 219-224 (1999).	
	CE	Schröder, Johannes, Essig, Marco, Baudendistel, Klaus, Jhan, Thomas, Gerdson, Ingo, Stockert, Andreas, Schad, Lothar R. and Knopp, Michael V., "Motor Dysfunction and Sensorimotor Cortex Activation Changes in Schizophrenia: A Study with Functional Magnetic Resonance Imaging", NeuroImage, Vol. 9, pp. 81-87 (1999).	
	BC	Siniatchkin, Michael, Kropp, Peter and Gerber, Wolf-Dieter, "Neurofeedback The Significance of Reinforcement and the Search for an Appropriate Strategy for the Success of Self-regulation", Applied Psychophysiology and Biofeedback, Vol. 25, No. 3, pp. 167-175 (1998).	
	BB	Thompson, L. and Thompson M., "Neurofeedback Combined with Training in Metacognitive Strategies: Effectiveness in Students with ADD", Applied Psychophysiology and Biofeedback, Vol. 23, No. 4, pp. 243-263 (1998).	
	BE	Wilding, Edward L., "Event-Related Functional Imaging and Episodic Memory", Neuroscience & Biobehavioral Reviews, Vol. 25, pp. 545-554 (2001).	
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	CF	Yoo, Seung-Schik, Guttman, Charles R. G., Zhao, Lei and Panych, Lawrence P., "Real-Time Adaptive Functional MRI", NeuroImage, Vol. 10, pp. 596-606 (1999)	
	DB	Zacks, Jeff, Rypma, Bart, Gabrieli, J.D.E., Tversky, Barbara, Glover, Gary H., "Imagined Transformations of Bodies: An fMRI Investigation", Neuropsychologia, Vol. 37, pp. 1029-1040 (1999).	

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